

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP2005/000556

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01L51/30 C09K19/34 C07D487/22 C07F1/08 C07F3/06 C07F15/00 C07F15/04		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01L C09K C07D C07F		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data, BEILSTEIN Data, PAJ, INSPEC		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SCHOUTEN P G ET AL: "Peripherally octasubstituted phthalocyanines with branched alkoxy chains" MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol. 195, January 1991 (1991-01), pages 291-305, XP000223180 compounds 1a & 1b	1-8
A	HATSUSAKA K ET AL: "Discotic liquid crystals of transition metal complexes, Part 30: spontaneous uniform homeotropic alignment of octakis(dialkoxyphenoxy) phthalocyaninatocopper(II) complexes" JOURNAL OF MATERIALS CHEMISTRY, vol. 11, 2001, pages 423-433, XP002280121 ISSN: 0959-9428 cited in the application the whole document	1-8
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "G" document member of the same patent family		
Date of the actual completion of the international search 27 July 2005		Date of mailing of the international search report 10/08/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Elliott, A

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PCT/EP2005/000556

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NOSTRUM VAN C F ET AL: "Supramolecular architectures from phthalocyanine building blocks" MACROMOLECULAR SYMPOSIA, vol. 77, January 1994 (1994-01), pages 267-276, XP000433245 ISSN: 1022-1360 compounds 1b & 1c -----	1-8
A	MUTO T ET AL: "NLO properties of chiral phthalocyanine films" PROCEEDINGS OF THE SPIE, vol. 5212, no. 1, 2003, pages 282-291, XP002336682 ISSN: 0277-786X figure 1 -----	1-8
P,A	WANG S-Q ET AL: "Optical limiting properties of a soluble chloro-indium phthalocyanine" HUAXUE XUEBAO - ACTA CHIMICA SINICA, vol. 62, no. 22, 2004, pages 2209-2212, XP009050721 ISSN: 0567-7351 figure 1 -----	1-8
P,A	WANG J-D ET AL: "Structure of ethanol coordinated 1,8,15,22-tetra(2',2',4'-trimethyl-3'-pentoxy)phthalocyaninatocobalt" JIEGOU HUAXUE - CHINESE JOURNAL OF STRUCTURAL CHEMISTRY, vol. 23, no. 5, May 2004 (2004-05), pages 516-519, XP009050722 ISSN: 0254-5861 the whole document -----	1-8
A	LIU W ET AL: "Synthesis, spectroscopic properties, and structure of 'tetrakis(2,4-dimethyl-3-pentyloxy)phthalocyaninato!metal complexes" EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, no. 2, January 2004 (2004-01), pages 286-292, XP002336617 ISSN: 1434-1948 the whole document -----	1-8
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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>BIAN Y ET AL: "Synthesis, spectroscopic characterisation and structure of the first chiral heteroleptic bis(phthalocyaninato) rare earth complexes" CHEMICAL COMMUNICATIONS, no. 10, 2003, pages 1194-1195, XP002336618 ISSN: 1359-7345 compound 3</p>	1-8
A	<p>RAGER C ET AL: "Influence of substituents, reaction conditions and central metals on the isomer distributions of 1(4)-tetrasubstituted phthalocyanines" CHEMISTRY, A EUROPEAN JOURNAL, vol. 5, no. 1, 1999, pages 280-288, XP001155922 ISSN: 0947-6539 the whole document</p>	1-8
A	<p>LIU J ET AL: "Study on phosphorus(III) complex of tetrabenzotriazacorrole: A novel phthalocyanine-like photosensitizer" JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY, A: CHEMISTRY, vol. 99, no. 2-3, 1 October 1996 (1996-10-01), pages 115-119, XP002336648 ISSN: 1010-6030 figure 1</p>	1-8
A	<p>KASUGA K ET AL: "Preparation of one structural isomer of tetra-substituted phthalocyanine, 1,8,15,22-tetra(3'-pentoxy)phthalocyanine, and a crystal structure of its nickel(II) complex" CHEMISTRY LETTERS, no. 10, 1996, pages 867-868, XP009050737 ISSN: 0366-7022 the whole document</p>	1-8
A	<p>LEZNOFF C C ET AL: "The use of bisphthalonitriles in the synthesis of side-strapped 1,11,15,25-tetrasubstituted phthalocyanines" CANADIAN JOURNAL OF CHEMISTRY, vol. 74, no. 3, 1996, pages 307-318, XP009027618 ISSN: 0008-4042 compound 5</p>	1-8
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PCT/EP2005/000556

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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>LEZNOFF C C ET AL: "Preparation of substituted tetrabenzotriazaporphyrins and a tetranaphthotriazaporphyrin: a route to mono-meso-substituted phthalocyanine analogs" JOURNAL OF ORGANIC CHEMISTRY, vol. 55, no. 7, 30 March 1990 (1990-03-30), pages 2186-2190, XP002336653 ISSN: 0022-3263 compound 3</p>	1-8
A	<p>PATENT ABSTRACTS OF JAPAN vol. 011, no. 043 (C-402), 7 February 1987 (1987-02-07) & JP 61 207461 A (RIKAGAKU KENKYUSHO), 13 September 1986 (1986-09-13) (tetra-t-butoxy) and (tetra(1-methylbutoxy)) phthalocyanines and corresponding metal complexes abstract</p>	1-8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/000556

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 61207461 A	13-09-1986	JP 8000851 B	10-01-1996